

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

5 **Listing of Claims:**

Claim 1 (currently amended): A method for program debugging, the method comprising:

- 10 (a) setting a plurality of breakpoints corresponding to a plurality of events in an implementation under test, each event being a test executed to a peripheral device and taking a general processing path when the peripheral device is working well or an error processing path when the peripheral device is out of order;
- (b) executing the implementation under test for outputting a diagnosis code of a breakpoint;
- (c) resetting a parameter of the event corresponding to the diagnosis code; and
- 15 (d) executing the event according to the reset parameter for making the event undergo ~~an error handler~~ the error processing path.

Claim 2 (currently amended): The method of claim 1 further comprising: after step (d), repeating steps (b) to (d) for making the implementation under test make all events  
20 undergo the ~~error handler~~ the error processing path.

Claim 3 (original): The method of claim 1 wherein the breakpoints are set ahead of program codes of the corresponding events.

25 Claim 4 (original): The method of claim 1 wherein the breakpoints are set after program codes of the corresponding events.

Claim 5 (cancelled)

Claim 6 (currently amended): The method of claim 1 wherein the ~~error handler is~~ error processing path produces an audible tone.

5 Claim 7 (currently amended): The method of claim 1 wherein the ~~error handler is~~ error processing path causes a system reset.

Claim 8 (currently amended): The method of claim 1 wherein the ~~error handler is~~ error processing path causes a system execution interrupt.

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Claim 9 (cancelled)

Claim 10 (new): A method for program debugging, the method comprising:

generating a script file comprising a user assigned diagnosis code, an first parameter,

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and a second parameter corresponding to an event in an implementation under test, the event being a test executed to a peripheral device and taking a general processing path when the peripheral device is working well or an error processing path when the peripheral device is out of order;

setting a breakpoint corresponding to the event in the implementation under test;

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executing the implementation under test using a parameter equal to the

corresponding first parameter for outputting a diagnosis code of the breakpoint; the script file resetting the parameter to be equal to the second parameter when the diagnosis code answers to the user assigned diagnosis code; and executing the event according to the second parameter.

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Claim 11 (new): The method of claim 10 further comprising executing the event according to the general processing path when the first parameter is the same as the second parameter.

Claim 12 (new): The method of claim 10 further comprising executing the event according to the error processing path when the first parameter is different from the second parameter.

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Claim 13 (new): The method of claim 12 wherein the error processing path comprising a generic event error handler and a critical event error handler, each error handler being respectively executed according to different second parameters.

10 Claim 14 (new): The method of claim 13 wherein the generic event error handler displays error messages or writes errors into a file or both.

Claim 15 (new) The method of claim 13 wherein the critical event error handler and produces at least one of an audible tone, a system reset, and a stop execution command.

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Claim 16 (new) The method of claim 13 further comprising executing the implementation under test until the end of the program after undergoing the error processing path.

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